

Amendments to the Claims:

Claims 1-67 (Cancelled).

68. (Currently Amended) A method for optimizing a set of portfolios of assets comprising the steps of:

providing a computer having a computer-readable media and an electrical output device,
wherein the computer-readable media has an application stored thereon;

storing data pertaining to the portfolio of assets on the computer-readable media;

identifying a set of economic models;

executing the set of economic models;

determining a fitness landscape representation with respect to the set of portfolios of assets by extracting a set of observables from said execution of the set of economic models;

optimizing the set of portfolios by determining at least one optimal searching distance in setthe fitness landscape representation;

searching for optimal ones of the set of portfolios of assets at the at least one optimal searching distance, wherein portfolios at the optimal searching distance comprise optimal ones of the set of portfolios of assets; and

presenting results from said searching step for the optimal ones of the portfolios of assets on anthe electrical output device.

69. (Previously Presented) A method as in claim 68 wherein each portfolio in the set of portfolios of assets comprises a vector corresponding to the assets of each corresponding portfolio wherein each element of the vector identifies a number of units of each of the corresponding assets in each portfolio of the set of portfolios.

70. (Currently Amended) A method as in claim 69 further comprising:
identifying a first portfolio of the portfolio of assets and a second portfolio of the portfolio of assets;
determining a difference between said the vector of said the first portfolio and said the vector of said the second portfolio; and

wherein the at least one searching distance between ~~at~~the first portfolio of the set of portfolios of assets and ~~at~~the second portfolio of the set of portfolios of assets is defined as the difference between the vector of the first portfolio and the vector of the second portfolio.

71. (Currently Amended) A method as in claim 68 wherein the fitness of said the landscape representation comprises a value of risk.

72. (Previously Presented) A method as in claim 68 wherein said determining a fitness landscape representation step comprises inferring the fitness landscape representation from historical data.

73. (Currently Amended) Computer executable software code stored on a computer readable medium, the code for optimizing a set of portfolios of assets, the code comprising:

code to execute a set of economic models;

code to determine a fitness landscape representation with respect to the set of portfolios of assets by extracting a set of observables from the execution of the set of economic models;

code to optimize the set of portfolios by determining at least one optimal searching distance in said fitness landscape representation;

code to search for optimal ones of said set of portfolios of assets at said at least one optimal searching distance, wherein portfolios of assets at the optimal searching distance range comprise optimal ones of said set of portfolios of assets; and

code to present results from the searching for said optimal ones of said set of portfolios of assets on an electrical output device.

74. (Currently Amended) A programmed computer system for optimizing a set of portfolios of assets comprising at least one memory having at least one region storing computer executable program code and at least one processor for executing the program code stored in said memory, wherein the program code comprises:

code to execute a set of economic models;

code to determine a fitness landscape representation with respect to the set of portfolios of assets by extracting a set of observables from said execution of the set of economic models;

code to optimize the set of portfolios by determining at least one optimal searching distance in said fitness landscape representation;

code to search for optimal ones of said set of portfolios of assets at said at least one optimal searching distance, wherein portfolios of assets at the optimal searching distance range comprise optimal ones of said set of portfolios of assets; and

code to present results from the searching for said optimal ones of said set of portfolios of assets on an electrical output device.

Claims 75-100 (Cancelled).